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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SERIAL NO.: 09/938,923
FILING DATE: 8-24-2001
INVENTOR: YUAN; RUIXI

2661 #8
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Technology Center 2600

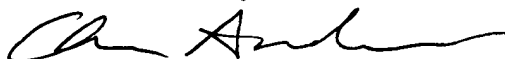
TO THE HONORABLE COMMISSIONER OF PATENTS

POWER TO INSPECT

SIR:

Please allow the firm of Berlin and Associates, 2001 Jefferson Davis Highway, Suite 404, Arlington, VA 22202, and in particular Ernestine Prophet, Lucy Smith, Keisha Jenkins and/or Thea Zumwalt, access to the above-mentioned file for the purposes of copying any papers deemed necessary.

Sincerely,



Christian R. Andersen
Assistant Secretary
VERIZON Corporate Services Group
By Assignment from
GTE Networking Inc.

ASSIGNMENT OF PATENTS

This ASSIGNMENT OF PATENTS is effective as of June 28, 2000 between Genuity Inc. (by change of name from GTE Internetworking Incorporated), a corporation organized and existing under the laws of Delaware and having a principal business address of 3 Van de Graaff, Burlington, Massachusetts 01803 (hereinafter "ASSIGNOR") and GTE Service Corporation, a corporation organized and existing under the laws of New York, having a principal business address of 1255 Corporate Drive, Irving, Texas 75038 (hereinafter "ASSIGNEE").

WHEREAS, ASSIGNOR is the owner of all right, title and interest in and to the inventions and United States and foreign Letters Patent and Applications for Letters Patent identified in the attached Schedule A; and

WHEREAS, ASSIGNEE is desirous of acquiring the aforesaid inventions and United States and foreign Letters Patent and Applications for Letters Patent identified in Schedule A.

NOW, THEREFORE, in consideration of the premises and the mutual covenants set forth in the Agreement and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to any rights and licenses granted to third parties on or before the effective date hereof, ASSIGNOR does hereby assign unto ASSIGNEE all rights, title and interest of ASSIGNOR in and to the aforesaid inventions and United States and foreign Letters Patent and Applications for Letters Patent identified in Schedule A, including all inventions and improvements described therein, any legal equivalent thereof in all foreign countries (subject, however, to applicable patent laws in such countries), the right to claim priority therefrom, and in and to all Letters Patent worldwide to be obtained by such patent applications or any continuations, divisions, renewals, extensions, substitutes, reissues or re-examinations thereof, the same to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the terms for which such Letters Patent are granted, plus any extensions, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made, together with all claims for damages by reason of past and future infringement of said Letters Patent and inventions, with the right to sue for, and collect the same for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives.

State of New York }
Department of State } ss:

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.

Witness my hand and seal of the Department of State on

DEC 14 2001



A handwritten signature in cursive script, appearing to read "J. Leuch", followed by a long horizontal line.

Special Deputy Secretary of State

DOS-1266 (7/00)

State of Delaware
Office of the Secretary of State

PAGE 1

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "GTE INTERNETWORKING INCORPORATED", CHANGING ITS NAME FROM "GTE INTERNETWORKING INCORPORATED" TO "GENUITY INC.", FILED IN THIS OFFICE ON THE SIXTH DAY OF APRIL, A.D. 2000, AT 10 O'CLOCK A.M.



A handwritten signature in cursive script, reading "Edward J. Freel".

Edward J. Freel, Secretary of State

2794960 8100

001181607

AUTHENTICATION:

0370108

DATE:

04-10-00

EXPRESS MAIL NO. EK966291665US



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

OCTOBER 31, 2000

PTAS

VERIZON SERVICES GROUP
LEONARD CHARLES SUCHYTA
600 HIDDEN RIDGE ROAD
IRVING, TX 75038

700002599A

700002599A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/27/2000

REEL/FRAME: 011065/0023
NUMBER OF PAGES: 3

BRIEF: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GTE INTERNETWORKING INCORPORATED,
A DELAWARE CORPORATION

DOC DATE: 04/06/2000

ASSIGNEE:

GENUITY INC.
3 VAN DE GRAFF DRIVE
A DELAWARE CORPORATION
BURLINGTON, MASSACHUSETTS 01803

SERIAL NUMBER: 09098622
PATENT NUMBER:

FILING DATE: 06/17/1998
ISSUE DATE:

SERIAL NUMBER:
PATENT NUMBER:
PCT NUMBER: US9913502

FILING DATE:
ISSUE DATE:

011065/0023 PAGE 2

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

DCT-27-2000 14:20

VERIZON LEGAL WALTHAM

781 466 4021 P.02/04

PTO-1000

RECORD COVER SHEET

U.S. DEPARTMENT OF COMMERCE

(Rev. 8-03)
OMB No. 0651-0011 (exp. 4/04)

Patent and Trademark Office

PATENTS ONLY
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Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

GTE INTERNETWORKING INCORPORATED
a Delaware CorporationAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☐ Assignment ☐ Merger
☐ Security Agreement ☒ Change of Name
☐ Other _____

Execution Date: April 6, 2000

2. Name and address of receiving party(ies):

Name: GENUITY INC.

Internal Address: a Delaware Corporation

Street Address: 3 Van De Graaff Drive

City: Burlington State: MA ZIP: 01803

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s): Docket Nos. 98-409 RCE1 & 98-409 PCT

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/098,622

PCT/US99/13502

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

Name and address of party to whom correspondence concerning document should be mailed:

Name: Leonard Charles Suchyta

Internal Address: Verizon Services Group HGE03G04

Street Address: 600 Hidden Ridge Road

City: Irving State: TX ZIP: 75038

8. Total number of applications and patents involved: 2

7. Total fee (\$7 CFR 3.41) \$ 80.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

07-2339

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James K. Weixel, Reg. No. 44,399

Name of Person Signing

Signature

Date


Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "GTE INTERNETWORKING INCORPORATED", CHANGING ITS NAME FROM "GTE INTERNETWORKING INCORPORATED" TO "GENUITY INC.", FILED IN THIS OFFICE ON THE SIXTH DAY OF APRIL, A.D. 2000, AT 10 O'CLOCK A.M.




Edward J. Freel, Secretary of State

2794960 8100

001181607

AUTHENTICATION:

0370108

DATE:

04-10-00

4-6-00

CERTIFICATE OF AMENDMENT OF CERTIFICATE OF INCORPORATION
OF
GTE INTERNETWORKING INCORPORATED

It is hereby certified that:

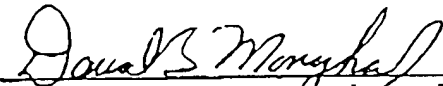
1. The name of the corporation (hereinafter called the "corporation") is GTE Internetworking Incorporated.

2. The certificate of incorporation of the corporation is hereby amended by striking out Article[s] 1 thereof and by substituting in lieu of said Article[s] the following new Article[s]:

"1. The name of the corporation is Genuity Inc."

3. The amendment of the certificate of incorporation herein certified has been duly adopted in accordance with the provisions of Section 242, 228 and 141 of the General Corporation Law of the State of Delaware.

Signed on this 5th of April, 2000.


Name: David B. Monaghan, Jr.
Title: Vice President-Finance

EXPRESS MAIL NO. EK966291665US



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

NOVEMBER 09, 1998

LEONARD CHARLES SUCHYTA
HQE03G13
600 HIDDEN RIDGE
IRVING, TEXAS 75038

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PATENT DEPT.



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UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/03/1998

REEL/FRAME: 9382/0703
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
YUAN, RUIXI

DOC DATE: 07/17/1998

ASSIGNOR:
AKYOL, BORA

DOC DATE: 07/22/1998

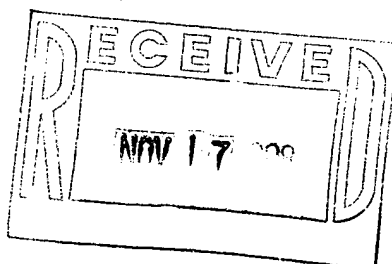
ASSIGNOR:
STRAYER, WILLIAM TIMOTHY

DOC DATE: 07/20/1998

ASSIGNEE:
GTE INTERNETWORKING INCORPORATED
150 CAMBRIDGE PARK DRIVE
CAMBRIDGE, MASSACHUSETTS 02140

SERIAL NUMBER: 09098622
PATENT NUMBER:

FILING DATE: 06/17/1998
ISSUE DATE:



98-409
Assigned
CW

Chad

9382/0706 PAGE 2

PEARLENE FOSTER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

08-19-1998

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab settings



To the Honorable Commissioner of Patents and

100796627

and original documents or copy thereof.

1. Name of conveying party(ies):

Ruixi Yuan

Bora Akyol

William Timothy Strayer

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

MAD 8-3-98

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

7/17/98, 7/22/98, 7/20/98

Execution Date:

2. Name and address of receiving party(ies):

Name: GTE Internetworking Incorporated

Internal Address:

Street Address: 150 CambridgePark Drive

City: Cambridge State: MA ZIP: 02140

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

09/098,622

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

08/14/1998 MHUNTER 00000001 072339 09098622

01 FC-381 Name: Leonard Charles Suchyta

Internal Address: HQE03G13

Street Address: 600 Hidden Ridge

City: Irving State: TX ZIP: 75038

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40 E

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

72339

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Floyd E. Anderson, Reg. No. 33,825

Name of Person Signing

Floyd E. Anderson

Signature

7/31/98

Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT

For good and valuable consideration which we hereby acknowledge,

we, Ruixi Yuan
Bora Akyol
William Timothy Strayer

residing (respectively) at

5706 Stearns Hill Road, Waltham, MA 02154
8 Freeman Road, Chelmsford, MA 01824
80 Adena Road, West Newton, MA 02165

sell and assign to **GTE INTERNETWORKING INCORPORATED**, a Delaware corporation, its successors and assigns, our invention in

METHOD AND SYSTEM FOR CONNECTIONLESS COMMUNICATION IN A CELL RELAY SATELLITE NETWORK

and the application for United States Patent therefor executed concurrently herewith, and all Patents which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, and authorize and request the Commissioner of Patents to issue all Patents on said invention or resulting therefrom to said Company as assignee of the entire interest, and covenant that we have full right so to do and agree that we will communicate to said Company or its representatives any facts known to us respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said invention, in the United States and all foreign countries.

Inventor *Ruixi Yuan* Date July 17, 1998
Ruixi Yuan
Address 5706 Stearns Hill Road, Waltham, MA 02154

Witness *Mary E. Ariza* Date 7/17/98
Address 390 Highland St. Winton, MA 02493-2627

Witness *Nancy J. Hough* Date July 17, 1998
Address 174 Helen Dr. Madbury, MA 01752

Inventor *Bora Akyol* Date July 22, 1998
Bora Akyol
Address 8 Freeman Road, Chelmsford, MA 01824

Witness *Nelle Akyol* Date July 22, 1998
Address 8 Freeman Rd. Chelmsford MA 01824

Witness *Michael J. Forrester* Date July 22, 1998
Address 3390 S. BEVERLY PL.
CHANDLER, AZ 85248

Inventor

William Timothy Strayer

Date

7/20/98

Address

William Timothy Strayer
80 Adena Road, West Newton, MA 02165

Witness

Alden W. [Signature]

Date

7/20/98

Address

12 Rodman St Jamaica Plain MA 02130

Witness

Nancy J. Hough

Date

July 20, 1998

Address

124 Helen Dr.
Maldenborough, MA 01752

EXPRESS MAIL NO. EK966291665US



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

OCTOBER 31, 2000

PTAS

VERIZON SERVICES GROUP HGE03G04
LEONARD CHARLES SUCHYTA
600 HIDDEN RIDGE ROAD
IRVING, TX 75038

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ECORDATION DATE: 10/27/2000

REEL/FRAME: 011065/0072

NUMBER OF PAGES: 12

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GENUITY INC., A DELAWARE
CORPORATION

DOC DATE: 09/06/2000

ASSIGNEE:

GENUITY INC.
3 VAN DE GRAAFF DRIVE
A DELAWARE CORPORATION
BURLINGTON, MASSACHUSETTS 01803

ASSIGNEE:

GTE SERVICE CORPORATION
1255 CORPORATE DRIVE
A NEW YORK CORPORATION
IRVING, TEXAS 75038

SERIAL NUMBER: 09098622

FILING DATE: 06/17/1998

OPR/ASSIGNMENTS
PATENT NUMBER:

11/1/00

8:23: PAGE 003/5
ISSUE DATE:

RightFAX

011065/0072 PAGE 2

SERIAL NUMBER:
PATENT NUMBER:
PCT NUMBER: US9913502

FILING DATE:
ISSUE DATE:

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

OCT-27-2000 14:23

VERIZON LEGAL WALTHAM

781 466 4021 P.02/13

FORM PTO-1598

(REV. 5-93)

OMB No. 0851-0011 (exp. 4/94)

RECORDING COVER SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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1. Name of conveying party(ies):

GENUITY INC.

a Delaware Corporation

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: September 6, 2000

2. Name and address of receiving party(ies):

Name: GENUITY INC.

Internal Address: a Delaware Corporation

Street Address: 3 Van De Graaff Drive

City: Burlington

State: MA

ZIP: 01803

Additional name(s) & address(es) attached?

☒ Yes ☐ No

4. Application number(s) or patent number(s):

Docket Nos. 98-409 RCE1 & 98-409 PCT

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

09/098,622

PCT/US99/13502

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

Name and address of party to whom correspondence concerning document should be mailed:

Name: Leonard Charles Suchyta

Internal Address: Verizon Services Group HGE03G04

Street Address: 600 Hidden Ridge Road

City: Irving

State: TX

ZIP: 75038

6. Total number of applications and patents involved:

2

7. Total fee (37 CFR 3.41)\$ 80.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

07-2339

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James K. Weixel, Reg. No. 44,399

Name of Person Signing

Signature

10/26/2000

Date

Total number of pages including cover sheet, attachments, and document:

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Washington, D.C. 20231

(Form PTO-1598-Recordation Form Cover Sheet - page 1 of 3)

FORM PTO-1595

RECORDATION FORM COVER SHEET U.S.

DEPARTMENT OF COMMERCE

rev. 6-93)

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Patent and Trademark Office

MB No. 0651-0011 (exp. 4/94)

1. Name of conveying party(ies):

Additional name(s) of conveying party(ies) attached?

Yes ☐No ☒

2. Name and address of receiving party(ies):

Name: GTE SERVICE CORPORATIONInternal Address: a New York CorporationStreet Address: 1255 Corporate DriveCity: Irving State: TX ZIP: 75038

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached?

Yes ☐No ☒

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?

Yes ☐No ☒